

CHARLES ABBOT NEWHALL
CHEMICAL ENGINEER
SMITH TOWER
SEATTLE

April 21st, 1934.

Mr. Jas. F. Pollard, General Manager,
Seattle Gas Company,
1511 4th Ave.,
SEATTLE, Wash.

Dear Mr. Pollard,

Under date of the 12th inst. you commissioned us to make a preliminary study of the problems that have recently arisen at the Gas Works.

According to our observations all these problems center around the tar emulsion formed in the operation of the gas machines. Therefore this report deals mainly with the factors that evidently cause the formation of this unusually troublesome tar emulsion and also offers several suggestions that may be expected to relieve or entirely eliminate your bad odor and smoke difficulties.

The adoption of our suggestions will also, we are confident, result in a material reduction in operating costs along with a possible increase in income if a market can be found or developed for certain by-products.

This commission, being limited to a preliminary study, makes it impossible for us to include in this report, as we would like to do, a detailed program along with careful cost estimates and working plans. While we feel sure that we have found a way to eliminate the worst of your smell, smoke and emulsion troubles we want to emphasize that we do not advise the adoption, on a works scale, any of our suggestions until costs and working plans and a program have been drawn up by competent operative and technical talent. (Having had a long operative experience in several process industries we have learned that it is usually unsatisfactory and always unduely costly to make factory scale experiments on the basis of mere suggestions-- no matter how sound such suggestions may be.)

Thanking you for this commission and acknowledging payment in full, we are

Yours sincerely,

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Charles A. Newhall

Report and chemical sample enclosed.

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